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Angiogenesis induced by the implantation of self-bone marrow cells: a new material for therapeutic angiogenesis.

Hamano K, Li TS, Kobayashi T, Kobayashi S, Matsuzaki M, Esato K.

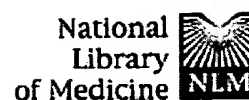
First Department of Surgery, Yamaguchi University School of Medicine, Ube, Japan. kimikazu@po.cc.yamaguchi-u.ac.jp

Bone marrow, contains various primitive cells that are thought to secrete several angiogenic growth factors and may also differentiate into endothelial cells. The present study was conducted to investigate the possibility that bone marrow cells could be a novel material to induce angiogenesis. The expression of vascular endothelial growth factor (VEGF) and basic fibroblast growth factor (bFGF) in rat bone marrow cells was examined by immunohistochemistry. The production of VEGF was compared in tissue culture supernatant under the conditions of normoxia and hypoxia. The process of angiogenesis that occurred following the implantation of bone marrow cells was determined using a rat cornea model. VEGF- and bFGF-positive cells were found in rat bone marrow. The production of VEGF from bone marrow cells was significantly more enhanced by hypoxic conditions than by normoxic conditions. The rat cornea model showed that bone marrow cell implantation created new vessels. The implantation of self-bone marrow cells is a novel and simple method of inducing angiogenesis.

PMID: 10972343 [PubMed - indexed for MEDLINE]

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☐ 1: J Surg Res 2000 Apr;89(2):189-95

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**ELSEVIER SCIENCE
FULL-TEXT ARTICLE****Enhancement of angiogenesis by the implantation of self bone marrow cells in a rat ischemic heart model.****Kobayashi T, Hamano K, Li TS, Katoh T, Kobayashi S, Matsuzaki M, Esato K.**

First Department of Surgery, Yamaguchi University School of Medicine 1-1-1 Minamikogushi, Ube, Yamaguchi, 755-8505, Japan.

Background. Bone marrow contains various kinds of primitive cells which differentiate into endothelial cells and could secrete several growth factors. Therefore, we attempted to induce therapeutic angiogenesis using self bone marrow cells in a rat model. **Materials and methods.** Quantitative angiogenesis was examined using a sponge implantation assay that indicated whether the rat bone marrow cells had induced angiogenesis or not. Employing a rat ischemic heart model, bone marrow cells were injected directly into the ischemic area and the number of vessels was examined immunohistochemically using the anti-CD31 monoclonal antibody. The contributed growth factors revealed the levels present in the ischemic myocardium by an enzyme-linked immunosorbent assay and reverse transcription polymerase chain reaction. **Results.** The sponge implantation assay showed that bone marrow cells induced angiogenesis. Light microscopic analysis of the vessel count positively stained by anti-CD31 in the ischemic area showed that angiogenesis had been induced to a significantly greater degree in the group implanted with bone marrow cells (BMI group) than in the group injected with phosphate-buffered saline (PBS group) 1 week after BMI. Levels of the inflammatory cytokines interleukin-1 (IL-1beta) and cytokine-induced neutrophil chemoattractant (CINC) in the BMI group were significantly elevated compared with those in the PBS group. **Conclusions.** Self bone marrow cell implantation induced angiogenesis in a rat ischemic heart model as a result of elevation of the levels of IL-1beta and CINC. Thus, bone marrow-implantation could be a novel and simple method to induce therapeutic angiogenesis. Copyright 2000 Academic Press.

PMID: 10729249 [PubMed - indexed for MEDLINE]

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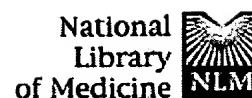
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Bone marrow angiogenesis in patients achieving complete response after stem cell transplantation for multiple myeloma.

Rajkumar SV, Fonseca R, Witzig TE, Gertz MA, Greipp PR.

Division of Hematology, Mayo Clinic and Mayo Foundation, Rochester, MN 55905, USA.

Although most of the initial studies in angiogenesis were done on solid tumors, there is now data suggesting the importance of angiogenesis in hematologic malignancies. We estimated bone marrow microvessel density before autologous stem cell transplantation and at the time of response in 13 patients with myeloma (seven complete and six partial responders) using an immunohistochemical stain for factor VIII-related antigen (von Willebrand factor). Baseline microvessel density was significantly different between bone marrow samples from patients with myeloma and morphologically normal, staging marrows from patients with limited stage Hodgkin's disease, mean (+/- s.d.) 294 (+/-115)/mm² vs 93 (+/-26/mm², respectively, P = 0.001. After transplantation, microvessel density continued to be high in myeloma samples compared to samples from control patients with limited stage Hodgkin's disease, mean (+/- s.d.) 230 (+/-68)/mm², P = 0.003. There was no difference in microvessel density at the time of complete or partial response compared to values prior to transplantation. This report confirms that increased angiogenesis is found in myeloma bone marrow prior to transplantation, and suggests that increased angiogenesis persists even after complete response.

PMID: 10086738 [PubMed - indexed for MEDLINE]

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=> 9 L1 and angiogen?
L2 55 L1 AND ANGIOGEN?

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L3 42 DUP REM L2 (13 DUPLICATES REMOVED)

=> d 1-42

L3 ANSWER 1 OF 42 USPATFULL

AN 2002:273565 USPATFULL
TI 84242,8035, 55304, 52999, and 21999, novel human proteins and methods of

use thereof

IN Bandaru, Rajaschkar, Watertown, MA, UNITED STATES

PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2002:51696 A1 2002:1017

AI US 2001:996194 A1 2001:1128 (9)
PRAI US 2000-250348P 2000:1130 (60)

US 2000-250073P 2000:1130 (60)
US 2000-253878P 2000:1129 (60)

US 2000-250338P 2000:1130 (60)

DT Utility
PS APPLICATION
LN.CNT 8034

SO MEDICAL AND PEDIATRIC ONCOLOGY, (2001 Dec) 37 (6) 511-7.
Journal code: 750654, ISSN: 0098-1532.

CY United States
DT Journal: Article: (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200201
ED Entered STN: 20011219
Last updated on STN: 20020125
Entered Medline: 20020103

L3 ANSWER 36 OF 42 BIOSIS COPYRIGHT 2002 ACS
AN 2001:58563 CAPLUS
DN 1351282991
TI HMG-CoA reductase inhibitor mobilizes bone marrow-derived endothelial progenitor cells
AU Llavador, Joan; Murasawa, Satoshi; Kureishi, Yasuko; Uchida, Shigeki; Masuda, Haruchika; Kawamoto, Atsuniko; Walsh, Kenneth; Isner, Jeffrey M.; Asahara, Takayuki
CS Department of Medicine, Cardiovascular Research, St. Elizabeth's Medical Center, Tufts University School of Medicine, Boston, MA, USA
SO Journal of Clinical Investigation (2001), 108(3), 399-405
CODEN: JCINHO; ISSN: 0021-9738
PB American Society for Clinical Investigation
DT Journal
LA English
RE.CNT 40

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L3 ANSWER 37 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2002:186513 BIOSIS
DN PREV200200186513
TI The p53 status in bone marrow stromal cells influences production of pro-angiogenic factors and growth of acute lymphoblastic leukemia.
AU Narendran, Aru (1); Ganjuvi, Homan (1); Barlow, Jason W. (1); Gee, Matthew (1); Seevaratnam, Loretta (1); Malkin, David (1); Freedman, Melvin H. (1)
CS (1) Hematology and Oncology, Hospital for Sick Children, Toronto, ON Canada
SO Blood, (November 16, 2001) Vol. 98, No. 11 Part 1, pp. 325a.
http://www.bloodjournal.org/. print.
Meeting Info.: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001
ISSN: 0006-4971.
DT Conference
LA English

L3 ANSWER 38 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2002:152565 BIOSIS
DN PREV200200152565
TI Expression of TGF- β 1, VEGF and bFGF in peripheral blood CD34+ cells, unpurified BMNC and PMNC of patients with myeloproliferative disease and MDS.
AU Grossi, Alberto (1); Biscardi, Monica (1); Gavazzi, Sabrina (1); Balestri, Francesca (1); Fabbrì, Alberto (1); Morfini, Massimo (1)
CS (1) Hematology, Azienda Ospedaliera Careggi, Firenze Italy
SO Blood, (November 16, 2001) Vol. 98, No. 11 Part 2, pp. 279b.
http://www.bloodjournal.org/. print.
Meeting Info.: 43rd Annual Meeting of the American Society of Hematology, Part 2 Orlando, Florida, USA December 07-11, 2001
ISSN: 0006-4971.
DT Conference
LA English

L3 ANSWER 39 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2001:477321 BIOSIS
DN PREV200100477321
TI Angiogenesis induced by autologous bone marrow transplantation.
AU Matsui, Keiji (1); Ikeda, Jichi (1); Murakami, Yoshiaki (1); Shimo, Masahisa (1); Takahashi, Masatomo (1); Shimada, Kazuyuki (1); Kamitawa, Osamu; Kasuda, Haruyuki; Muroi, Kazuo; Ozawa, Keiya
CS (1) Department of Cardiology, Jichi Medical School, Tochigi Japan
SO Experimental Hematology (Charlottesville), (August, 2001) Vol. 29, No. 8 Supplement 1, pp. 92. print.
Meeting Info.: 30th Annual Meeting of the International Society for Experimental Hematology Tokyo, Japan August 25-28, 2001
ISSN: 0301-472X.
DT Conference
LA English
SL English

L3 ANSWER 40 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2002:263365 BIOSIS
DN PREV200200263365
TI Evaluation of potential side-effects by implantation of bone marrow-derived mononuclear cells into porcine ischemic myocardium.
AU Kamihata, Hiroshi (1); Matsubara, Hiroaki (1); Nishibe, Takashi (1); Fujiyama, Soichiro (1); Tsurumi, Yoshiaki (1); Shibaaki, Yasunobu (1); Ibe, Osamu (1); Tateishi, Eriko (1); Amano, Katsuya (1); Shintani, Satoshi; Murohara, Toyooki; Imazumi, Tsutomu; Iwasaka, Toshiiji
CS (1) Kansai Med Univ, Osaka Japan
SO Circulation, (October 23, 2001) Vol. 104, No. 17 Supplement, pp. II.68.
http://circ.ahajournals.org/. print.
Meeting Info.: Scientific Sessions 2001 of the American Heart Association Anaheim, California, USA November 11-14, 2001
ISSN: 0009-7322.
DT Conference
LA English

L3 ANSWER 41 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2001:294207 BIOSIS
DN PREV200100294207
TI Bone marrow stromal cells in acute promyelocytic leukemia: Comparison with other acute myelogenous leukemia subtypes.
AU Dominici, Massimo (1); Campioni, Diana (1); Lanza, Francesco (1); Moretti, Sabrina (1); Horvitz, Edwin M.; Spaneda, Remedio (1); Castoldi, Gianluigi
CS (1) Hematology, University, Ferrara Italy
SO Blood, (November 16, 2000) Vol. 96, No. 11 Part 2, pp. 201b. print.
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hematology
ISSN: 0006-4971.
DT Conference
LA English
SL English

L3 ANSWER 42 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2001:68625 BIOSIS
DN PREV20010068625
TI Therapeutic angiogenesis by cell transplantation: Comparative study among bone marrow-mononuclear cells, and fibroblasts.
AU Shintani, Satoshi (1); Ikeda, Hisao (1); Ueno, Takafumi (1); Sasaki, Ken-ichiro (1); Shimada, Toshifumi; Matsubara, Hiroaki; Murohara, Toyooki
CS (1) Kurume Univ, Kurume Japan
SO Circulation, (October 31, 2000) Vol. 102, No. 18 Supplement, pp. II.20. print.
Meeting Info.: Abstracts from Scientific Sessions 2000 New Orleans, Louisiana, USA November 12-15, 2000

ISSN: 0009-7322.
 Conference
 English
 English

=> d 40 all

L3 ANSWER 40 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2002:263365 BIOSIS
 DN PREV200200263365
 TI Evaluation of potential side-effects by implantation of bone marrow-derived mononuclear cells into porcine ischemic myocardium.
 AU Kamihata, Hiroshi (1); Matsubara, Hiroaki (1); Nishine, Takashi (1); Fujiyama, Soichiro (1); Tsubota, Yoshiaki (1); Shibasaki, Yasunobu (1); Iba, Osamu (1); Tateishi, Eriko (1); Amano, Katsuya (1); Shintani, Satoshi; Murohara, Toyooki; Imazumi, Tutomu; Iwazaki, Toshiji
 CS (1) Kanai Med Univ, Osaka Japan
 SO Circulation. (October 23, 2001) Vol. 104, No. 17 Supplement, pp. II-68.
 http://circ.ahajournals.org/. print.
 Meeting Info.: Scientific Sessions 2001 of the American Heart Association Anaheim, California, USA November 11-14, 2001
 ISSN: 0009-7322.

DT Conference
 LA English
 CC General Biology - Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annals *00520
 Cytology and Cytochemistry - Animal *02506
 Cytology and Cytochemistry - Human *02508
 Pathology, General and Miscellaneous - Therapy *12512
 Cardiovascular System - Physiology and Biochemistry *14504
 Cardiovascular System - Heart Pathology *14506
 Cardiovascular System - Blood Vessel Pathology *14508
 Blood, Blood-Forming Organs and Body Fluids - Blood and Lymph Studies *15002
 Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
 Muscle - Physiology and Biochemistry *17504
 Bones, Joints, Fasciae, Connective and Adipose Tissue - Physiology and Biochemistry *18004
 Immunology and Immunochimistry - General; Methods *34502
 Immunology and Immunochimistry - Immunopathology, Tissue Immunology *34508
 BC Suidae 85740
 Homidae 86215
 IT Major Concepts
 Blood and Lymphatics (Transport and Circulation); Cardiovascular System (Transport and Circulation)
 IT Parts, Structures, & Systems of Organisms
 bone marrow mononuclear cell;
 blood and lymphatics, differentiation, graft, immune system; capillary; coronary artery; circulatory system, size; coronary microvascular endothelial cell; circulatory system, graft; endothelial lineage cell; circulatory system; heart; circulatory system; macrophage; blood and lymphatics; immune system; myocardium; circulatory system, muscular system; osteoblast; skeletal system; plasma; blood and lymphatics
 Diseases
 arteriosclerosis; vascular disease; cardiac arrhythmia; heart disease; cardiac fibrosis; heart disease; cardiac inflammation; heart disease, immune system disease; myocardial ischemia; heart disease, therapy, vascular disease
 IT Chemicals & Biochemicals
 CPK-MB; VEGF mRNA [vascular endothelial growth factor messenger RNA]; expression, regulation; angiotensin-1 mRNA [angiotensin-1 messenger RNA]; expression, regulation; bcrf mRNA [basic fibroblast growth factor

messenger RNA]; expression, regulation; troponin-I
 IT Alternate Indexing
 IT Arteriosclerosis (Mesh); Arrhythmia (Mesh); Myocardial Ischemia (Mesh)
 IT Methods & Equipment
 bone marrow mononuclear cell
 implantation; complications; efficacy; therapeutic method; coronary microvascular endothelial cell implantation; complications, efficacy, therapeutic method
 IT Miscellaneous Descriptors
 angiogenesis regulation; regional blood flow; Meeting
 Abstract
 ORGN Super Taxa
 Homidae; Primates, Mammalia, Vertebrata, Chordata, Animalia; Suidae; Artiodactyla, Mammalia, Vertebrata, Chordata, Animalia
 ORGN Organism Name
 HUVEC cell line (Homidae); human umbilical vein endothelial cell; pig (Suidae)
 ORGN Organism Superterms
 Animals; Artiodactyla; Chordates; Humans; Mammals; Nonhuman Mammals; Nonhuman Vertebrates; Primates; Vertebrates

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 L2 55 S L1 AND ANGIOGEN?
 L3 42 DUP REM L2 (13 DUPLICATES REMOVED)
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 (Y)/N:Y

L3 ANSWER 1 OF 42 USPATFULL
 AN 2002:273565 USPATFULL
 TI 84242,8035, 55304, 52999, and 21999, novel human proteins and methods of use thereof
 IN Bandaru, Rajaschkar, Watertown, MA, UNITED STATES
 PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
 FI US 2002:251696 A1 20021017
 A1 US 2001-996194 A1 20011128 (9)
 AI US 2000-250348P 20001130 (60)
 PRAI US 2000-250073P 20001130 (60)
 US 2000-250878P 20001129 (60)
 US 2000-250338P 20001130 (60)

DT Utility
FS GRANTED
LN CNT 1160
INCL INCLM: 530/351.000
NCL INCLM: 530/350.000; 435/069.100; 435/069.700; 424/143.100; 424/145.100
NCLM: 530/351.000
NCLM: 424/143.100; 424/145.100; 435/069.100; 435/069.700; 530/350.000
IC ICM: C07K01-00
ICM: C07K01-00
EXP ICS: C12P021-06; C12P021-04; A61K039-395
EXP 530/380; 530/351; 435/69.1; 435/69.7; 424/143.1; 424/145.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 30 OF 42 USPATFUL
AN 2001:93354 USPATFUL
TI Method for promoting mesenchymal stem and lineage-specific cell proliferation
IN Rodgers, Kathleen E.; Long Beach, CA, United States
PA Dizegna, Gere, Pasadena, CA, United States
PA University of Southern California, Los Angeles, CA, United States (U.S. corporation)
PI US 6248587 B1 20010619
AI US 1998-198806 19981124 (9)
RLI Continuation-in-part of Ser. No. US 1998-12400, filed on 23 Jan 1998
PRAI US 1997-66593P 19971126 (60)
DT Utility
FS GRANTED
LN CNT 1486
INCL INCLM: 435/375.000
INCLM: 530/328.000; 530/329.000; 530/330.000; 530/331.000; 514/015.000;
NCLM: 514/016.000; 514/017.000; 514/018.000; 514/021.000
NCLM: 435/375.000
NCLM: 514/015.000; 514/016.000; 514/017.000; 514/018.000; 514/021.000;
IC (7)
ICM: C12N005-06
ICS: A61K038-00; A61K038-08
EXP 514/19; 514/16; 514/17; 514/18; 514/21; 435/375; 530/328; 530/329;
530/330; 530/331
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 31 OF 42 MEDLINE DUPLICATE 4
AN 2001480936 MEDLINE
DN 21415480 PubMed ID: 11524400
TI Implantation of bone marrow mononuclear
cells into ischemic myocardium enhances collateral perfusion and
regional function via side supply of angioblasts, angiogenic
ligands, and cytokines.
AU Kamihata H; Matsubara H; Nishie T; Fujiyama S; Tsubum T; Ozono R;
Maseki H; Mori Y; Iba O; Tateishi E; Kosaki A; Shintani S; Murohara T;
Imazumi T; Imabaka T
CS Department of Medicine II and Cardiovascular Center, Kansai Medical
University, Moriguchi, Osaka, Japan.
SO CIRCULATION, (2001 Aug 28) 104 (9) 1046-52.
CY Journal code: 0147763. ISSN: 1524-4539.
DT United States
LA English
DT Journal; Article; (JOURNAL ARTICLE)
FS Abridged Index Medicus Journals; Priority Journals
EM 200109
ED Entered STN: 20010830
Last Updated on STN: 20010917
Entered Medline: 20010913

L3 ANSWER 32 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2001:138385 BIOSIS
DN PREV200100138385
TI Augmentation of postnatal neovascularization with autologous bone marrow
transplantation.
AU Shintani, Satoshi; Murohara, Toyooka (1); Ikeda, Hideo; Ueno, Takafumi;
Sasaki, Ken-ichiro; Dunn, Unili; Imazumi, Tsubomu
(1) Cardiovascular Research Institute, Kurume University, 67 Asahi-machi,
Kurume, 830-0011; toyooka@med.kurume-u.ac.jp Japan
SO Circulation, (February 13, 2001) Vol. 103, No. 6, pp. 897-903. print.
ISSN: 0009-7322.
DT Article
LA English
SL English

L3 ANSWER 33 OF 42 MEDLINE DUPLICATE 5
AN 2002246842 MEDLINE
DN 21980945 PubMed ID: 11985351
TI Influence of thalidomide on Bcl2 expression and proapoptotic cytokine
levels in short-term culture of peripheral blood and bone
marrow mononuclear cells of multiple myeloma
patients.
AU Dmoszynska A; Rolinski J; Bojarska-Junak A; Manko J; Jawniak D;
Walter-Croneck A; Soroka-Wojtaszko M; Hus M
CS Haematology Department, University School of Medicine, Lublin, Poland.
SO POLISH JOURNAL OF PHARMACOLOGY (2001 Nov-Dec) 53 (6) 709-13.
Journal code: 9313882. ISSN: 1230-6002.
CY Poland
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200207
ED Entered STN: 20020503
Last Updated on STN: 20020720
Entered Medline: 20020719

L3 ANSWER 34 OF 42 MEDLINE DUPLICATE 6
AN 2001693741 MEDLINE
DN 21605575 PubMed ID: 11740808
TI Expression of vascular endothelial growth factor and its receptors in
multiple myeloma and other hematopoietic malignancies.
AU Bellamy W T
CS Department of Pathology, University of Arizona, 1501 N. Campbell Ave.,
Tucson, AZ 85724, USA.
SO SEMINARS IN ONCOLOGY, (2001 Dec) 28 (6) 551-9. Ref: 56
Journal code: 0420432. ISSN: 0093-7754.
CY United States
DT General Review; (JOURNAL ARTICLE)
LA English
FS Review; (REVIEW)
EM 200201
ED Entered STN: 20011217
Last Updated on STN: 20020125
Entered Medline: 20020115

L3 ANSWER 35 OF 42 MEDLINE DUPLICATE 7
AN 2001699213 MEDLINE
DN 21612271 PubMed ID: 11745889
TI A possible role for spontaneous interleukin-8 production by acute myeloid
leukemic cells in angiogenesis related processes: work in
progress.
AU de Bont E S; Vellenga E; Molena G; van Wering E; de Leij J F; Kamps W A
Division of Paediatric Oncology, Department of Paediatrics, Beatrix
Children's Hospital, Groningen, The Netherlands.. e.de.bontobk.azg.nl

TI Therapeutic angiogenesis by bone marrow-derived cell transplantation in myocardial ischemic tissue and skeletal muscle ischemic tissue
 IN Ueno, Takafumi; Murohara, Toyooki; Robinson, Keith Allen; Chronos, Nicolas A. F.; Baldwin, Sam; Palasis, Maria
 PA Scimed Life Systems, Inc., USA
 SO PCT Int. Appl., 58 pp.
 DT Patent
 LA English
 FAN, CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2001-052343 20010726
 PI WO 2002008389 A2 20020131
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RM: CH, CM, KE, LS, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CG, CL, CM, GN, GW, ML, MR, NE, SN, TD, TG
 US 2002037278 A1 20020328 US 2001-915853 20010726
 PRAI US 2000-220834P P 20000726
 L3 ANSWER 25 OF 42 MEDLINE
 AN 2002613010 IN-PROCESS DUPLICATE 1
 DN 22256546 Pubmed ID: 12369790
 TI Basic fibroblast growth factor stimulates osteoclast recruitment, development, and bone pit resorption in association with angiogenesis in vivo on the chick chorioallantoic membrane and activates isolated avian osteoclast resorption in vitro.
 AU Collin-Oudoby Patricia; Roche Linda; Bekker Simon; Anderson Fred; Huang Yuefang; Oudoby Philip
 CS Department of Biology, Washington University, St. Louis, Missouri 63130, USA.
 NC AR32927 (NIAMS)
 DK46547 (NIDDK)
 SO JOURNAL OF BONE AND MINERAL RESEARCH, (2002 Oct) 17 (10) 1859-71.
 CY Journal code: 8610640. ISSN: 0884-0431.
 DT United States
 LA Journal: Article; (JOURNAL ARTICLE)
 FS IN-PROCESS: NONINDEXED: Priority Journals
 ED Entered STN: 20021010
 Last Updated on STN: 20021010
 L3 ANSWER 26 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2002138997 BIOSIS
 DN PREV20020038997
 TI Bcr-abl-positive cells secrete angiogenic factors including matrix metalloproteinases and stimulate angiogenesis in vivo in Matrigel implants.
 AU Turner, A. R.; Rafajczak, M. Z. (1)
 CS (1) Stem Cell Biology Program, James Graham Brown Cancer Center, University of Louisville, 559 South Jackson Street, Louisville, KY, 40202 USA
 SO Leukemia (Basingstoke), (June, 2002) Vol. 16, No. 6, pp. 1160-1166.
 DT Article
 LA English
 ISSN: 0887-6924.
 http://www.naturej.com/leu/index.html. print.

L3 ANSWER 27 OF 42 MEDLINE
 AN 2002477802 MEDLINE
 DN 22226970 Pubmed ID: 12241713
 TI Therapeutic angiogenesis for patients with limb ischemia: a randomized controlled trial.
 AU Tateishi-Yuasa Eriko; Matsuda Hiroaki; Murohara Toyooki; Ikeda Uichi; Shintani Satoshi; Maki Hiroya; Amano Katsuya; Kishimoto Yuji; Yoshimoto Kohji; Akashi Hidetoshi; Shimada Kazuyuki; Iwasaka Toshiyuki; Imazumi Tsutomu
 CS Department of Medicine II and Cardiovascular Centre, Kansai Medical University, Osaka, Japan. (Therapeutic Angiogenesis using Cell Transplantation (TACT) Study Investigators).
 SO LANCET. (2002 Aug 10) 360 (9331) 427-35.
 DT Journal code: 2985213R. ISSN: 0140-6736.
 CY England: United Kingdom
 LA (CLINICAL TRIAL)
 FS (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Abridged Index Medicus Journals; Priority Journals
 EM 200210
 ED Entered STN: 20020921
 Last Updated on STN: 20021008
 Entered Medline: 20021007
 L3 ANSWER 28 OF 42 MEDLINE
 AN 2002284183 MEDLINE
 DN 22020403 Pubmed ID: 11994978
 TI Role of the microenvironment in promoting angiogenesis in acute myeloid leukemia.
 AU Litwin Craig; Leong Kevin G; Zapf Richard; Sutherland Heather; Naiman Sheldon C; Karsan Aly
 CS Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada.
 SO AMERICAN JOURNAL OF HEMATOLOGY, (2002 May) 70 (1) 22-30.
 CY Journal code: 7610369. ISSN: 0361-8609.
 DT United States
 LA Journal: Article; (JOURNAL ARTICLE)
 FS English
 FS Priority Journals
 EM 200206
 ED Entered STN: 20020528
 Last Updated on STN: 20020612
 Entered Medline: 20020611
 L3 ANSWER 29 OF 42 USPAPFUL
 AN 2001185455 USPAPFUL
 TI Cytokine zalfahall ligand
 IN Novak, Julia E.; Bainbridge Island, WA, United States
 Presnell, Scott R.; Tacoma, WA, United States
 Sprenger, Cindy A.; Seattle, WA, United States
 Foster, Donald C.; Lake Forest Park, WA, United States
 Holly, Richard D.; Seattle, WA, United States
 Gross, Jane A.; Seattle, WA, United States
 Johnston, Janet V.; Seattle, WA, United States
 Nelson, Andrew J.; Shoreline, WA, United States
 Dillon, Stacey R.; Seattle, WA, United States
 Hammond, Angela K.; Maple Valley, WA, United States
 Zymocentrics, Inc.; Seattle, WA, United States (U.S. Corporation)
 PA US 6307024 B1 20011023
 FI US 2000-522217 20000309 (9)
 AI US 1999-123547P 19990309 (60)
 PRAI US 1999-123504P 19990311 (60)
 US 1999-142013P 19990701 (60)

INCL INCLM: 536/023.100
NCLM: 536/023.100
IC [7]
ICM: C07H021-02
ICS: C07H021-04

L3 ANSWER 2 OF 42 USPATFULL
AN 2002:272857 USPATFULL
TI 46798, a novel human matrix metalloproteinase and uses therefor
IN Cutler, Rory A.J., Southborough, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, UNITED STATES (U.S. corporation)
PI US 2002:509378 A1 20021017
AI US 2001-950510 A1 20010910 (9)
PRAI US 2000-231136P 20000908 (60)
DT Utility
FS APPLICATION
LN CNT 4511
INCL INCLM: 435/069.100
INCLM: 435/226.000; 435/325.000; 435/320.100; 536/023.200
NCLM: 435/069.100
NCLM: 435/226.000; 435/325.000; 435/320.100; 536/023.200
IC [7]
ICM: C12N009-64
ICS: C07H021-04; C12P021-02; C12N005-06

L3 ANSWER 3 OF 42 USPATFULL
AN 2002:265947 USPATFULL
TI Method for promoting hematopoietic and mesenchymal cell proliferation and differentiation
IN Rodgers, Kathleen E., Long Beach, CA, UNITED STATES
PA Dizegna, Gere, Pasadena, CA, UNITED STATES
PI US 2002:146823 A1 20021010
AI US 2001-837697 A1 20010418 (9)
PRAI Continuation of Ser. No. US 1998-198806, filed on 24 Nov 1998, PATENTED
DT US 1997-66593P 19971126 (60)
FS Application
LN CNT 1529
INCL INCLM: 435/384.000
NCLM: 435/384.000
IC [7]
ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 42 USPATFULL
AN 2002:236242 USPATFULL
TI Novel cyclokin zeipmail ligand
IN Novak, Julia E., Bainbridge Island, WA, UNITED STATES
PI Prenehl, Scott R., Tacoma, WA, UNITED STATES
PA Sprecher, Cindy A., Seattle, WA, UNITED STATES
FOSTER, Donald C., Lake Forest Park, WA, UNITED STATES
Holly, Richard D., Seattle, WA, UNITED STATES
Grosh, Jane A., Seattle, WA, UNITED STATES
Johnston, Janet V., Seattle, WA, UNITED STATES
Nelson, Andrew J., Shoreline, WA, UNITED STATES
Dillon, Stacey R., Seattle, WA, UNITED STATES
Hammond, Angela K., Maple Valley, WA, UNITED STATES
PI US 2002:18446 A1 20020912
AI US 2001-923446 A1 20010803 (9)
PRAI Division of Ser. No. US 2000-522217, filed on 9 Mar 2000, PATENTED
DT US 1999-123047P 19990311 (60)
FS US 1999-12304P 19990701 (60)

DT Utility
FS APPLICATION
LN CNT 8753
INCL INCLM: 530/351.000
INCLM: 435/069.500; 536/023.500; 435/320.100; 435/325.000
NCLM: 530/351.000
NCLM: 435/069.500; 536/023.500; 435/320.100; 435/325.000
IC [7]
ICM: C07K014-52
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 42 USPATFULL
AN 2002:214447 USPATFULL
TI 8797, a novel human galactosyltransferase and uses thereof
IN Meyers, Rachel, Newton, MA, UNITED STATES
PA Macbeth, Kyle, Boston, MA, UNITED STATES
Teal, Fong-Ying, Newton, MA, UNITED STATES
Millennium Pharmaceuticals, Inc., Cambridge, MA, UNITED STATES (U.S. corporation)
PI US 2002:15839 A1 20020822
AI US 2001-945254 A1 20010831 (9)
PRAI US 2000-229829P 20000831 (60)
DT Utility
FS APPLICATION
LN CNT 4663
INCL INCLM: 536/023.100
NCLM: 536/023.100
IC [7]
ICM: C07H021-02
ICS: C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 42 USPATFULL
AN 2002:213416 USPATFULL
TI Methods of controlling proliferation and differentiation of stem and progenitor cells
IN Peled, Tony, Mevaseret Zion, ISRAEL
Fibach, Eitan, Mevaseret Zion, ISRAEL
PI US 2002:14789 A1 20020822
AI US 2001-968127 A1 20011119 (9)
PRAI Continuation of Ser. No. US 2000-463120, filed on 22 Jan 2000, ABANDONED
DT A 371 of International Ser. No. WO 1999-11444, filed on 17 Aug 1999,
FS UNKNOWN
LN CNT 1599-US2664 19990208
DT Utility
FS APPLICATION
LN CNT 2597
INCL INCLM: 424/093.210
INCLM: 424/085.100
NCLM: 424/093.210
NCLM: 424/085.100
IC [7]
ICM: A61K048-00
ICS: A61K038-19
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 42 USPATFULL
AN 2002:199262 USPATFULL
TI 49937, 49931, and 49933, novel human transporter family members and uses thereof
IN Cutler, Rory A.J., Southborough, MA, UNITED STATES
PI Chun, Myoung, Belmont, MA, UNITED STATES
DT US 2002:107373 A1 20020808

AI US 2001-935291 A1 20010821 (9)
PRAI US 2000-226504P 20000821 (60)
US 2000-250932P 20001130 (60)
DT Utility
FS APPLICATION
LN.CNT 7322
INCL INCLM: 536/023.100
NCL NCLM: 536/023.100
IC [7]
ICM: C07H021-02
ICS: C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 42 USPTFULL
AN 2002:149156 USPTFULL
TI 3700, a novel human protein kinase and uses thereof
IN Curtis, Rory A.J., Southborough, MA, UNITED STATES
PA Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES
PI Millennium Pharmaceuticals, Inc., Cambridge, MA (U.S. corporation)
PI US 2002077312 A1 20020620
AI US 2001-963159 A1 20010925 (9)
PRAI US 2000-234922P 20000925 (60)
DT Utility
FS APPLICATION
LN.CNT 4240
INCL INCLM: 514/044.000
NCL INCLM: 514/044.000
NCLM: 514/044.000
NCLM: 435/455.000; 435/006.000
IC [7]
ICM: A61K048-00
ICS: C12N015-87; C12N001-68
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 42 USPTFULL
AN 2002:148643 USPTFULL
TI 23869, a novel human carboxylesterase and uses thereof
IN Curtis, Rory A.J., Southborough, MA, UNITED STATES
PI Logan, Thomas Joseph, Needham, MA, UNITED STATES
PI US 2002076786 A1 20020620
AI US 2001-895860 A1 20010629 (9)
PRAI US 2000-215370P 20000629 (60)
DT Utility
FS APPLICATION
LN.CNT 5139
INCL INCLM: 435/196.000
NCL INCLM: 435/069.100; 536/023.200; 435/320.100; 435/325.000
NCLM: 435/196.000
NCLM: 435/069.100; 536/023.200; 435/320.100; 435/325.000
IC [7]
ICM: C12N009-16
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 42 USPTFULL
AN 2002:119607 USPTFULL
TI 38554, a novel human transporter and uses thereof
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
PI Curtis, Rory A.J., Southborough, MA, UNITED STATES
PI US 2002061590 A1 20020523
AI US 2001-858194 A1 20010514 (9)
PRAI US 2000-204211P 20000512 (60)
DT Utility
FS APPLICATION
LN.CNT 5412

INCL INCLM: 435/449.000
NCL INCLM: 536/023.100; 530/350.000
NCLM: 435/449.000
NCLM: 536/023.100; 530/350.000
IC [7]
ICM: C07H021-02
ICS: C07H021-04; C07K001-00; C07K014-00; C07K017-00; C12N015-02
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 42 USPTFULL
AN 2002:119539 USPTFULL
TI 1983, 52881, 2398, 45449, 50289, and 52872 novel G protein-coupled
IN receptors and uses thereof
IN Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES
PI Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES
PI Siles-Santigago, Immaculada, Cambridge, MA, UNITED STATES
PI US 2002061522 A1 20020523
AI US 2001-796338 A1 20010228 (9)
PRAI US 2000-186059P 20000229 (60)
DT Utility
FS APPLICATION
LN.CNT 6599
INCL INCLM: 435/006.000
NCL INCLM: 435/325.000; 435/320.100; 435/007.100; 530/350.000; 536/023.500
NCLM: 435/006.000
NCLM: 435/325.000; 435/320.100; 435/007.100; 530/350.000; 536/023.500
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; C07H021-04; C12N005-06; C07K014-705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 42 USPTFULL
AN 2002:105952 USPTFULL
TI 22244 and 8701, novel human dehydrogenases and uses thereof
IN Meyers, Rachel, Newton, MA, UNITED STATES
PI US 2002055157 A1 20020509
AI US 2001-870130 A1 20010529 (9)
PRAI US 2000-207640P 20000526 (60)
DT Utility
FS APPLICATION
LN.CNT 4988
INCL INCLM: 435/183.000
NCL INCLM: 536/023.500; 424/094.100
NCLM: 435/183.000
NCLM: 536/023.500; 424/094.100
IC [7]
ICM: C07H021-04
ICS: A61K038-43; C12N009-00; C12N009-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 42 USPTFULL
AN 2002:99136 USPTFULL
TI 32142, 21481, 25964, 21686, novel human dehydrogenase molecules and uses
IN thereof
IN Meyers, Rachel, Newton, MA, UNITED STATES
PI Cook, William James, New London, NH, UNITED STATES
PI William, Mark, Saugus, MA, UNITED STATES
PI Rudolph-Owen, Laura A., Jamaica Plain, MA, UNITED STATES
PI US 2002052032 A1 20020502
AI US 2001-816760 A1 20010323 (9)
PRAI US 2000-192002P 20000324 (60)
DT Utility
FS APPLICATION

PENDING
US 2000-634955, filed on 8 Aug 2000.

DT Utility
FS APPLICATION
LN CNT 8034
INCL INCLM: 536/023.100
NCL INCLM: 536/023.100
IC (7)
ICM: C07H021-02
ICS: C07H021-04

=> d 42 a11
YOU HAVE REQUESTED DATA FROM FILE 'MEDLINE, BIOSIS, USPATFULL, CAPLUS' - CONTINUE?
(Y)/N/Y

L1 ANSWER 42 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
DN 2001086625 BIOSIS
PREV200100068625
T1 Therapeutic angiogenesis by cell transplantation: Comparative
study among bone marrow-mononuclear
cells, peripheral blood-mononuclear cells, and fibroblasts.
AU Shintani, Satochi (1); Ikeda, Hisao (1); Ueno, Takafumi (1); Sasaki,
Ken-ichiro (1); Shimada, Toshifumi; Matsubara, Hiroaki; Murohara, Toyooki
CS (1) Kurume Univ, Kurume, Japan
SO Circulation, (October 31, 2000) Vol. 102, No. 18 Supplement, pp. II-20.
print.
Meeting Info.: Abstracts from Scientific Sessions 2000 New Orleans,
Louisiana, USA November 12-15, 2000
ISSN: 0009-7322.
DT English
LA English
SL English
CC Immunology and Immunochimistry - General: Methods *14502
Congresses, Review Annals *00520
Cytology and Cytochemistry - Animal *02506
Pathology/ General and Miscellaneous - Therapy *12512
Cardiovascular System - Physiology and Biochemistry *14504
Blood, Blood-forming Organs and Body Fluids - Blood and Lymph Studies
*15002
Blood, Blood-forming Organs and Body Fluids - Blood Cell Studies *15004
BC Leporidae 86040
IT Major Concepts
IT Cardiovascular System (Transport and Circulation)
IT Parts, Structures, & Systems of Organisms
IT bone-marrow mononuclear cells:
blood and lymphatics; immune system; peripheral blood mononuclear cell;
blood and lymphatics; immune system
IT Methods & Equipment
IT cell transplantation: cytology method; histological capillary density;
measurement method; laser doppler blood perfusion; measurement method;
therapeutic angiogenesis: therapeutic method
IT Miscellaneous Descriptors
IT Meeting Abstract
ORGN Super Taxa
ORGN Leporidae; Lagomorpha, Mammalia, Vertebrata, Chordata, Animalia
ORGN Organism Name
ORGN New Zealand white rabbit (Leporidae)
ORGN Organism Superterms
ORGN Animals; Chordates; Lagomorpha; Mammals; Nonhuman Mammals; Nonhuman
Vertebrates; Vertebrates

=> d 13 42 ab

YOU HAVE REQUESTED DATA FROM FILE 'MEDLINE, BIOSIS, USPATFULL, CAPLUS' - CONTINUE?
(Y)/N/Y

L3 ANSWER 42 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

=> d his

(FILE 'HOME' ENTERED AT 15:30:20 ON 24 OCT 2002)
L1 FILE 'MEDLINE, CANCERLIT, BIOSIS, CONFSCI, USPATFULL, CAPLUS' ENTERED AT
15:30:50 ON 24 OCT 2002
L2 2576 S BONE (A) MARROW (A) MONONUCLEAR (A) CELL OR BMNC
L3 55 S L1 AND ANGIOGEN? 42 DUP REM L2 (13 DUPLICATES REMOVED)

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FILE 'MEDLINE, BIOSIS, USPATFULL, CAPLUS' ENTERED AT 15:40:30 ON 24 OCT
2002
FILE 'STNGUIDE' ENTERED AT 15:40:30 ON 24 OCT 2002
FILE 'MEDLINE, BIOSIS, USPATFULL, CAPLUS' ENTERED AT 15:40:56 ON 24 OCT
2002
FILE 'STNGUIDE' ENTERED AT 15:40:56 ON 24 OCT 2002
FILE 'MEDLINE, BIOSIS, USPATFULL, CAPLUS' ENTERED AT 15:41:13 ON 24 OCT
2002

=> s neovascular? and 11
0 NEOVASCULAR?
0 BONE
0 MARROW
0 MONONUCLEAR
16 CELL
0 BONE (A) MARROW (A) MONONUCLEAR (A) CELL
0 BMNC
L4 0 NEOVASCULAR? AND L1

=> s blood (a) vessel? and 11
0 BLOOD
1 VESSEL?
0 BLOOD (A) VESSEL?
0 BONE
0 MARROW
0 MONONUCLEAR
16 CELL
0 BONE (A) MARROW (A) MONONUCLEAR (A) CELL
0 BMNC
L5 0 BLOOD (A) VESSEL? AND L1

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=> file medline, cancerlit, biosis, confact, uspatfull, caplus, embase
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ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 16:01:18 ON 24 OCT 2002

FILE 'CANCERLIT' ENTERED AT 16:01:18 ON 24 OCT 2002

FILE 'BIOSIS' ENTERED AT 16:01:18 ON 24 OCT 2002
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=> s ueno takaz?/in
'IN' IS NOT A VALID FIELD CODE
'IN' IS NOT A VALID FIELD CODE
'IN' IS NOT A VALID FIELD CODE
'IN' IS NOT A VALID FIELD CODE
L1 575 UENO TAKAZ?/IN

=> s ll and bmmnc
L2 0 ll AND BMMNC

=> s ll and bone (a) marrow
L3 3 ll AND BONE (A) MARROW

=> d 1-3

L3 ANSWER 1 OF 3 USPATFULL

AN 2002:186097 USPATFULL
TI Methods and kits for improving retroviral-mediated gene transfer
utilizing molecules, or mixture thereof, containing retroviral binding
domains and target cell binding domains

IN Uemori, Takashi, Otsu, JAPAN
Ueno, Takashi, Kusatsu, JAPAN
Koyama, Nobuo, Uji, JAPAN
Hashino, Kimikazu, Takatsuki, JAPAN
Kato, Ikumoshin, Uji, JAPAN
Takara Shuzo Co., Ltd., JAPAN (non-U.S. corporation)
Bl 20020730

PA US 1999-366099 19990802 (9)
PI US 6426042

AI Division of Ser. No. US 1997-809156, filed on 7 Mar 1997
RLI Continuation-in-part of Ser. No. WO 1996-JP3254, filed on 7 Nov 1996
PRAI JP 1995-294382 19951113
JP 1996-51847 19960308

DT Utility

FS GRANTED

LN CNT 4116
INCL INCLM: 422/061.000 435/005.000; 435/456.000
INCLS: 435/004.000; 435/005.000; 435/456.000

NCL NCLM: 422/061.000
NCLS: 435/004.000; 435/005.000; 435/456.000
IC [7]

EXF ICM: G01N031-22
422/189.1; 422/259.1; 495/62
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 3 USPATFULL
AN 2002:66627 USPATFULL

TI Therapeutic angiogenesis by bone marrow-derived cell
transplantation in myocardial ischemic tissue and skeletal muscle
ischemic tissue
Ueno, Takafumi, Kurume, JAPAN
Murohara, Toyooki, Fukuoka, JAPAN
Robinson, Keith Allen, Norcross, GA, UNITED STATES
Chronos, Nicolas A.F., Atlanta, GA, UNITED STATES
Baldwin, Sam, Newton, MA, UNITED STATES
Palastis, Maria, Wellesley, MA, UNITED STATES

PI US 2002037278 A1 20020328 (9)
AI US 2001-915853 A1 20010726 (9)
PRAI US 2000-220834P 20000726 (60)

DT Utility

FS APPLICATION

LN CNT 1532
INCL INCLM: 424/093.700
INCLS: 435/366.000; 435/371.000

NCL NCLM: 424/093.700
NCLS: 435/366.000; 435/371.000
IC [7]

IC ICM: A61K045-00
ICS: C12N005-08

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2002:90196 CAPLUS

DN 136:221705
TI Therapeutic angiogenesis by bone marrow-derived cell
transplantation in myocardial ischemic tissue and skeletal muscle ischemic
tissue

IN Ueno, Takafumi; Murohara, Toyooki; Robinson, Keith Allen;
Chronos, Nicolas A. F.; Baldwin, Sam; Palastis, Maria
PA Scimed Life Systems, Inc., USA

SO PCT Int. Appl., 58 pp.

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.38	71.85

STN INTERNATIONAL LOGOFF AT 15:55:05 ON 24 OCT 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:
ssapca1642cxy
LOGINID:
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BELSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN

<-----User Break----->

---Logging off of STN---

NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN

NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAP10 has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded

NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

STN Operating Hours Plus Help Desk Availability
General Internet Information
Welcome Banner and News Items
NEWS INTER
NEWS LOGIN
NEWS PHONE
NEWS WWW
CAS World Wide Web Site (General Information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 15:59:29 ON 24 OCT 2002

=>

Executing the logoff script...

=> LOG Y

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssapca1642cxy
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BELSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New email delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 POFULP has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
USAN to be reloaded July 28, 2002:
NEWS 13 saved answer sets no longer valid
NETFIRST to be removed from STN
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 CANCERLIT reload
NEWS 16 Aug 08 PHARMARKETLIT(PHARMWL) - new on STN
NEWS 17 Aug 08 NTIS has been reloaded and enhanced
NEWS 18 Aug 08 Aquatic Toxicity Information Retrieval (AQUIRE)
NEWS 19 Aug 19 now available on STN

NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAP10 has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
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NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded

NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),

LN.CNT 5938
INCL INCLM: 435/190.000
INCL INCLM: 435/069.100; 435/325.000; 435/320.100; 536/023.200
NCL NCLM: 435/190.000
NCLM: 435/069.100; 435/325.000; 435/320.100; 536/023.200
IC [7]
ICM: C12N009-08
ICS: C12P021-02; C12N005-06; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L3 ANSWER 14 OF 42 USPTAFULL
AN 2002:78714 USPTAFULL
TI 32142, 21481, 25964, 21686, novel dehydrogenase molecules and uses
therefor
IN Meyers, Rachel, Newton, MA, UNITED STATES
Cook, William James, New London, NH, UNITED STATES
Williamson, Mark, Saugus, MA, UNITED STATES
Rudolph-Owen, Laura A., Jamaica Plain, MA, UNITED STATES
Gimeno, Ruth, Wellesley, MA, UNITED STATES
PI US 2002042371 AI 20020411
AI US 2001-838561 AI 20010418 (9)
AI Continuation-in-part of Ser. No. US 2001-816760, filed on 23 Mar 2001,
PENDING Continuation-in-part of Ser. No. US 2000-634955, filed on 8 Aug
2000, PENDING
PRAI US 2000-192002P 20000324 (60)
DT Utility
FS APPLICATION
LN.CNT 6183
INCL INCLM: 514/012.000
INCL INCLM: 530/350.000; 536/023.500; 435/069.100; 435/325.000; 435/320.100
NCL NCLM: 514/012.000
NCLM: 530/350.000; 536/023.500; 435/069.100; 435/325.000; 435/320.100
IC [7]
ICM: C07K014-705
ICS: C12P021-02; A61K038-17; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L3 ANSWER 15 OF 42 USPTAFULL
AN 2002:78404 USPTAFULL
TI 18057 protein, a novel seven transmembrane protein
Guckmann, Maria Alexandra, Lexington, MA, UNITED STATES
IN Macbeth, Kyle J., Boston, MA, UNITED STATES
Williamson, Mark, Saugus, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2002042058 AI 2002020411
AI US 2001-779448 AI 20010208 (9)
PRAI US 2000-180986P 20000208 (60)
DT Utility
FS APPLICATION
LN.CNT 4184
INCL INCLM: 435/006.000
INCL NCLM: 435/006.000
IC [7]
ICM: C12N001-68
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L3 ANSWER 16 OF 42 USPTAFULL
AN 2002:66627 USPTAFULL
TI Therapeutic angiogenesis by bone marrow-derived cell
transplantation in myocardial ischemic tissue and skeletal muscle
ischemic tissue
IN Ueno, Takafumi, Kurume, JAPAN
Murohara, Toyooki, Fukuyoka, JAPAN
Robinson, Keith Allen, Norcross, GA, UNITED STATES
Chronos, Nicolas A.F., Atlanta, GA, UNITED STATES

Baldwin, Sam, Newton, MA, UNITED STATES
Palastis, Maria, Wellesley, MA, UNITED STATES
PI US 2002037278 AI 20020328
AI US 2001-915853 AI 20010726 (9)
PRAI US 2000-220834P 20000726 (60)
DT Utility
FS APPLICATION
LN.CNT 1532
INCL INCLM: 424/093.700
INCL INCLM: 435/366.000; 435/371.000
NCL NCLM: 424/093.700
NCLM: 435/366.000; 435/371.000
IC [7]
ICM: A61K045-00
ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L3 ANSWER 17 OF 42 USPTAFULL
AN 2002:60972 USPTAFULL
TI 38692 and 21117, novel dual specificity phosphatase molecules and uses
therefor
IN Meyers, Rachel A., Newton, MA, UNITED STATES
PI US 2002034807 AI 20020321
AI US 2001-816494 AI 20010323 (9)
PRAI US 2000-191858P 20000324 (60)
DT Utility
FS APPLICATION
LN.CNT 5760
INCL INCLM: 435/196.000
INCL INCLM: 435/006.000; 435/007.100; 435/069.100; 435/325.000; 536/023.200;
530/388.100; 514/044.000
NCL NCLM: 435/196.000
NCLM: 435/006.000; 435/007.100; 435/069.100; 435/325.000; 536/023.200;
530/388.100; 514/044.000
IC [7]
ICM: C12N009-16
ICS: C12P001-68; G01N033-53; C07H021-04; C12P021-02; C12N005-06;
C07K016-40
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L3 ANSWER 18 OF 42 USPTAFULL
AN 2002:54640 USPTAFULL
TI 18806, a novel trypsin serine protease-like molecule and uses thereof
IN Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2002031801 AI 20020314
AI US 2001-815876 AI 20010323 (9)
PRAI US 2000-191789P 20000324 (60)
DT Utility
FS APPLICATION
LN.CNT 4162
INCL INCLM: 435/069.100
INCL INCLM: 435/320.100; 435/325.000; 536/023.200
NCL NCLM: 435/069.100
NCLM: 435/320.100; 435/325.000; 536/023.200
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C12N015-74; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L3 ANSWER 19 OF 42 USPTAFULL
AN 2002:12274 USPTAFULL
TI 25692, a novel human O-Methyltransferase family member and uses thereof
IN Meyers, Rachel A., Newton, MA, UNITED STATES
Williamson, Mark, Saugus, MA, UNITED STATES

PI US 2002006653 A1 20020117
 AI US 2001-844468 A1 20010427 (9)
 PRAI US 2000-200632P 20000428 (60)
 DT Uclilly
 FS APPLICATION
 LN CNT 5200
 INCL INCLM: 435/193.000
 INCLS: 435/006.000; 435/007.100; 435/325.000; 435/069.100; 536/023.200
 NCLM: 435/193.000
 NCLS: 435/006.000; 435/007.100; 435/325.000; 435/069.100; 536/023.200
 IC [7]
 ICM: C12N009-10
 ICS: C120001-68; GOIN033-53; C12P021-02; C12N005-06; C07H021-04
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 42 USPTAFULL
 AN 2002.12239 USPTAFULL
 TI Methods for using 20893, a human protein kinase
 IN Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES
 Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED STATES
 Welch, Nadine S., Brookline, MA, UNITED STATES
 PI US 2002006618 A1 20020117
 AI US 2001-780949 A1 20010209 (9)
 PRAI US 2000-181690P 20000209 (60)
 DT Uclilly
 FS APPLICATION
 LN CNT 4723
 INCL INCLM: 435/006.000
 INCLS: 435/004.000
 NCLM: 435/006.000
 NCLS: 435/004.000
 IC [7]
 ICM: C120001-68
 ICS: C120001-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 21 OF 42 USPTAFULL
 AN 2002.8237 USPTAFULL
 TI 27860, a novel ubiquitin conjugating enzyme family member and uses
 IN Chetefor
 Meyers, Rachel A., Newton, MA, UNITED STATES
 Tsai, Fong-Ying, Newton, MA, UNITED STATES
 PI US 2002004236 A1 20020110
 AI US 2001-842528 A1 20010425 (9)
 PRAI US 2000-193500P 20000425 (60)
 DT Uclilly
 FS APPLICATION
 LN CNT 4951
 INCL INCLM: 435/226.000
 INCLS: 435/069.100; 435/007.230; 435/325.000; 536/023.200; 514/007.000;
 NCLM: 435/226.000
 NCLS: 435/069.100; 435/007.230; 435/325.000; 536/023.200; 514/007.000;
 IC [7]
 ICM: C120001-68
 ICS: A61K038-16; GOIN033-574; C07H021-04; C12N009-64; C12P021-02;
 A61K048-00; C12N005-06
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 22 OF 42 USPTAFULL
 AN 2002.50604 USPTAFULL
 TI Methods for using the obese gene and its gene product to stimulate
 hematopoietic development
 IN Snodgrass, H. Ralph, Powell, OH, United States

PA Cioffi, Joseph, New Albany, OH, United States
 PI Zupancic, Thomas Joel, Worthington, OH, United States
 PRAI Shaffer, Alan Wayne, Lancaster, OH, United States
 DT Progenitor, Inc., Columbus, OH, United States (U.S. corporation)
 FS US 635237 B1 20020312
 LN CNT 2625
 INCL INCLM: 424/085.100
 INCLS: 424/085.200; 424/198.100; 514/012.000; 530/351.000; 530/300.000;
 NCLM: 435/377.000; 435/384.000; 435/385.000; 435/386.000; 435/405.000;
 NCLS: 424/085.100
 NCLS: 424/085.200; 424/198.100; 435/377.000; 435/384.000; 435/385.000;
 435/386.000; 435/405.000; 435/406.000; 514/012.000; 530/300.000;
 530/351.000
 IC [7]
 ICM: A61K045-08
 ICS: 435/372; 435/377; 435/384; 435/385; 435/386; 435/405; 435/406; 435/325;
 435/364; 530/351; 530/300; 424/85.1; 424/85.2; 424/198.1; 514/12
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 23 OF 42 USPTAFULL
 AN 2002.1100 USPTAFULL
 TI Method for promoting hematopoietic and mesenchymal cell proliferation
 IN and differentiation
 Rodgers, Kathleen E., Long Beach, CA, United States
 Dizerega, Gere S., Pasadena, CA, United States
 PA Merit Corporation, Newport Beach, CA, United States (U.S. corporation)
 PI US 6335195 B1 20020101
 PRAI US 1998-12400 B1 19980123 (9)
 US 1997-36507P 19970128 (60)
 US 1997-46859P 19970508 (60)
 US 1997-63684P 19971028 (60)
 US 1997-63910P 19971031 (60)
 US 1997-65612P 19971118 (60)
 US 1997-65659P 19971126 (60)
 US 1997-36507P 19970128 (60)
 US 1997-46859P 19970508 (60)
 US 1997-63684P 19971028 (60)
 US 1997-63910P 19971031 (60)
 US 1997-65612P 19971118 (60)
 US 1997-65659P 19971126 (60)
 DT Uclilly
 FS GRANTED
 LN CNT 1740
 INCL INCLM: 435/377.000
 INCLS: 514/016.000; 514/021.000; 530/316.000; 530/329.000
 NCLM: 435/377.000
 NCLS: 514/016.000; 514/021.000; 530/316.000; 530/329.000
 IC [7]
 ICM: C12N005-00
 ICS: C12N005-02; A61K038-00; C07K007-06
 435/377; 514/16; 514/21; 530/316; 530/329
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2002 ACS
 AN 2002.90196 CAPLUS
 DN 136.221705